

Appl. No. 10/788,577
Arndt. Dated August 6, 2007
Reply to Office Action of May 4, 2007

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A liquid crystal display, comprising:
a backlight module having a light source, a light guide plate, a reflector, and a quarter-wave plate, the light source being disposed adjacent to one side of the light guide plate, and the reflector, the quarter-wave plate and the light guide plate being stacked together from bottom to top in that order; and a plurality of V-shaped grooves formed directly in a top surface of the light guide plate, the V-shaped grooves being configured for promoting random diffraction of light, the top surface of the light guide plate being configured for emitting light composed of two polarization components orthogonal to each other; and
a liquid crystal panel having a reflective polarizing element, the liquid crystal panel being located on the backlight module, and the reflective polarizing element facing the top surface of the light guide plate.

Claim 2 (canceled).

Claim 3 (original): The liquid crystal display of claim 1, wherein the quarter-wave plate is attached to a bottom surface of the light guide plate.

Claim 4 (canceled).

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Claim 5 (currently amended): The liquid crystal display of claim [[4]] 1, further comprising a brightness enhancing film disposed between the diffuser grooves of the light guide plate and the liquid crystal panel.

Claim 6 (original): The liquid crystal display of claim 5, further comprising a plurality of printing-dots being defined on the bottom surface.

Claims 7-12 (canceled)

Claim 13 (currently amended): A liquid crystal display comprising:
a light guide plate;
a light source located by one side of the light guide plate;
a quarter-wave plate located under said light guide plate;
a reflector located under said quarter-wave plate;
a reflective polarizing element located above the light guide plate;
and

a plurality of V-shaped grooves formed directly in a top surface of the light guide plate, the V-shaped grooves being configured for promoting random diffraction of light, the top surface of the light guide plate being configured for emitting light composed of two polarization components orthogonal to each other.

Claim 14 (currently amended): A liquid crystal display comprising:
a reflective polarizing element;
a quarter-wave plate located under the reflective polarizing element;
a light guide plate interposed between the reflective polarizing element and the quarter-wave plate, the light guide plate having a top surface facing and spaced from the reflective polarizing element, wherein the light guide

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plate has a plurality of V-shaped grooves defined in the top surface thereof, the V-shaped grooves being configured for promoting random diffraction of light, the top surface of the light guide plate being configured for emitting light composed of two polarization components orthogonal to each other; a light source located on one side of the light guide plate; and a reflector located under said quarter-wave plate.

Claim 15 (canceled).

Claim 16 (canceled).

Claim 17 (previously presented): The liquid crystal display of claim 13, further comprising a plurality of printing-dots being defined on a bottom surface of the light guide plate.

Claim 18 (previously presented): The liquid crystal display of claim 13, wherein the top surface of the light guide plate faces the reflective polarizing element.

Claim 19 (currently amended): The liquid crystal display of claim 13, further comprising a brightness enhancing film disposed between the V-shaped grooves of the light guide plate and the liquid crystal panel or between the diffuser and the liquid crystal panel.

Claim 20 (previously presented): The liquid crystal display of claim 17, wherein the quarter-wave plate is attached to the bottom surface of the light guide plate.